

Outreach Education

Black Canyon of the Gunnison National Park
Curecanti National Recreation Area

National Park Service



Grade 6, Pre-Visit Activity, "Energy in Our World"

Name: _____

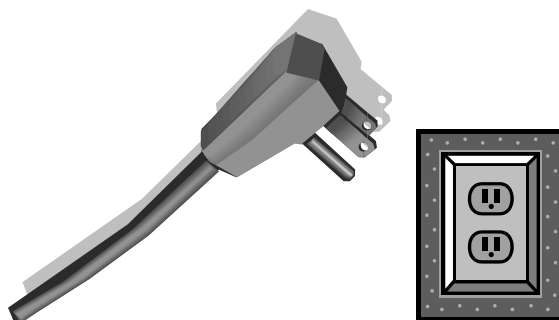
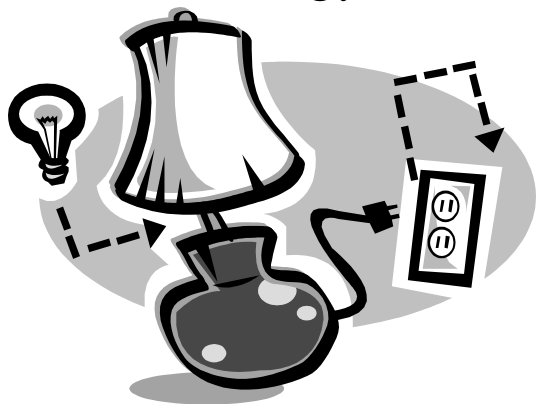
List five energy resources you use at home or at school:



Energy Resources	Renewable or Nonrenewable?	How can I conserve them?
1) _____	_____	_____ _____
2) _____	_____	_____ _____
3) _____	_____	_____ _____
4) _____	_____	_____ _____
5) _____	_____	_____ _____

After reviewing your vocabulary sheet, decide if the resources you listed above are renewable or nonrenewable. Place an "R" by the renewable resources and an "N" by the nonrenewable resources.

Then, in the column on the right, describe how you can conserve each of the five resources you listed above.



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VOCABULARY

- 1) **Energy**- resources such as petroleum, coal, gas, wind, water, and sunlight from which electricity can be produced
- 2) **Renewable Resources**- sources of energy which are unlimited if they are used wisely
- 3) **Nonrenewable Resources**- fuels such as coal, oil, and natural gas which will eventually be completely used up
- 4) **Fossil Fuel**- a naturally occurring energy source formed from the remains of ancient plant or animal life
- 5) **Nuclear Energy**- heat released by rearrangements of the nuclei in atoms
- 6) **Solar Energy**- power obtained from the sun
- 7) **Wind Energy**- power obtained by the movement of air
- 8) **Hydroelectricity**- power generated by moving water
- 9) **Conservation**- using resources wisely in order to receive maximum benefit over an extended period of time
- 10) **Preservation**- to protect from harm or damage

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Name: _____

Instructions: Fill in the blanks.

1) Solar and wind are two types of _____ energy.

2) Fossil fuels come from the remains of _____ and _____ life.

3) _____ is the act of using resources wisely.

4) Curecanti National Recreation Area has three sources of _____ power.

5) Three fossil fuels are _____, _____ and _____.

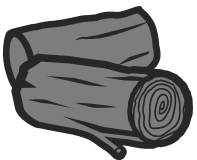
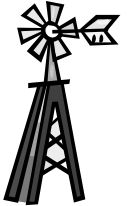
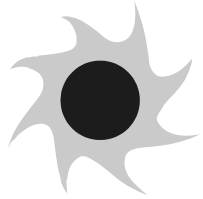
6) Plants use sunlight to create energy through a process called _____.

7) _____, which generates more than half of the United States' electricity, is a _____ resource.

8) Renewable resources do not _____ the air as much as nonrenewable resources.

9) Wood is an example of a _____.

10) If we _____ our resources we will be able to use them for a very long time.



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Energy Jeopardy Questions

1. What is the source of all energy? *The sun*
2. Plants use energy from the sun through what process? *Photosynthesis*
3. List two things we use to heat our homes. *Wood, solar, natural gas, etc.*
4. What does power generated from dams and falling water produce? *Electricity*
5. Of what resources do we have only a limited supply? *Nonrenewable*
6. What should you do with an empty aluminum can? *Recycle it*
7. Energy in the food chain passes from the sun to producers to _____.
Consumers
8. What uses more electricity - a radio, refrigerator or blender? *A refrigerator*
9. Renewable resources will last forever, only if we _____. *Take care of them*
10. Planting _____ around your house will help keep it cooler naturally. *Shade trees*
11. Where did a serious nuclear accident take place in 1986? *USSR*
12. What are coal, oil and natural gas? *Fossil fuels*
13. What source of nonrenewable energy uses radioactive uranium? *Nuclear energy*
14. Fossil fuels were formed a very long time ago from decomposed _____. *Plants and animals*
15. Which method saves more hot water and energy - baths or showers? *Showers*
16. You can save _____ by turning off lights, your TV and other appliances. *Electricity*
17. True or false. Oil is evenly distributed across the planet. *False*
18. Where does most of the heat escape from your house? *Windows*

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Energy Jeopardy Questions (cont.)

19. More than half of the energy we use in our homes is for _____. *Heat*
20. Where does the hot water in your house come from - the clouds, the store or hot water heaters?
Hot water heaters
21. If a machine is energy efficient, does it waste or save energy? *Save*
22. What is the term for using energy wisely? *Conservation*
23. Instead of running around the house in a T-shirt and bare feet during the winter and turning up _____ your thermostat, you can help the earth by _____. *Dressing warmly*
24. You can save water by _____ when you brush your teeth. *Turning off the water*
25. Name one source of renewable energy. *Wind, water, solar, wood, etc.*
26. Name one source of nonrenewable energy. *Coal, oil, natural gas, uranium*
27. What causes more pollution - fire places, cars or radios? *Cars*
28. Name one way of conserving energy. *Riding a bike or walking, etc.*
29. Before people had electricity and refrigerators, people put _____ in a big box to keep food _____ cold. *Ice*
30. Which pot boils faster and uses less energy - a covered or an uncovered pot?
Covered pot
31. What are renewable resources? *Resources that are potentially unlimited.*
32. What are nonrenewable resources? *Resources that are limited.*
33. What is the best way to stay warm - a match, a sweater or a flashlight? *Sweater*
34. What renewable source of energy uses glass in buildings to trap the sun's heat?
Solar
35. When was the first light bulb invented - last year, over 100 years ago or when the dinosaurs _____ lived? *Over 100 years ago (1879, Thomas Edison)*
36. Which saves more energy - a dusty light bulb or a clean one? *A clean one*
37. What is the best kind of bag to use when shopping? *A reusable or cloth bag*
38. What does an apple tree produce besides apples? *Wood, oxygen, etc.*

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Energy Jeopardy Questions (cont.)

39. What doesn't use a battery - a flashlight, a battery-powered vegetable slicer or a solar-powered calculator? *Calculator*
40. What source of energy is plastic made from? *Petroleum*
41. Resources such as water, trees, wind and sunlight are called renewable or nonrenewable? *Renewable*
42. Resources such as coal, oil, natural gas and uranium are called renewable or nonrenewable? *Nonrenewable*
43. You can conserve _____ by walking or riding a bike. *Fuel*
44. By sitting next to a window when reading, you are using _____ which is free and doesn't pollute. *Sunlight*
45. How many times can an aluminum can be recycled - once, 18 times or over and over? *Over and over*
46. Which type of light bulb is more efficient - incandescent or florescent? *Florescent*
47. From what renewable resource do humans get their energy from? *Biomass*
48. What type of energy resource derives from the magma of the earth's crust? *Geoth.*
49. What are the names of the three dams at Curecanti National Recreation Area?
Morrow Point, Crystal, Blue Mesa